



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5 CHICAGO REGIONAL LABORATORY  
536 SOUTH CLARK STREET  
CHICAGO, ILLINOIS 60605

**Date:** 9/14/2010  
**Subject:** Review of Region 5 Data for R06 Deep Water Grand Isle  
**From:** Lawrence Zintek  
Region 5 Chicago Regional Laboratory *LZ*  
**To:** Region 6, US EPA  
10625 Fallstone Road  
Houston, TX 77099

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

**Attached are Results for: R06 Deep Water Grand Isle**

\_\_\_\_\_  
Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Analyses included in this report:**

RAM-DOSS



Environmental Protection Agency Region 5  
**Chicago Regional Laboratory**

536 South Clark Street, Chicago, IL 60605  
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA  
10625 Fallstone Road  
Houston TX, 77099

Project: R06 Deep Water Grand Isle  
Project Number: -T0033-100403-20100907-05  
Project Manager: Kristie Warr

Reported:  
Sep-14-10 15:22

**ANALYSIS CASE NARRATIVE**  
**Analyst: Larry Zintek (312) 886-2925**

lt

**General Information**

Five samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis on September 13, 2010. The samples were received at 24°C.

**Sample Analysis and Results**

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS reporting level (20 ppb) or the Region 5 and Region 6 DOSS identification level of 10 ppb. The samples were collected on September 8, 2010 and were expected at CRL on September 10th. The samples were at the FedEx facility in Memphis, TN on September 10th and did not arrive at CRL until September 13th. All sample results are qualified estimated.

**Quality Control**

All data is qualified estimated due to the temperature upon receipt and/or the 5 day holding time requirement, sample 1009014-02 was inside the holding time by less than 1 hour.

**Matrix Spike/Matrix Spike Duplicate**

The 30% RPD limit for B009033-MS2/B009033-MSD2 was exceeded by 1%. All affected data are qualified.

All quality control criteria not mentioned met acceptance limits stated in the Draft Procedure.



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## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T008-R627-100908-SW-02-1	1009013-01	Water	Sep-08-10 08:31	Sep-13-10 11:00
T008-1321-100908-SW-05-1	1009013-02	Water	Sep-08-10 09:44	Sep-13-10 11:00
T001-1456-100908-SW-07-1	1009014-01	Water	Sep-08-10 10:45	Sep-13-10 11:00
T001-1448-100908-SW-05-1	1009014-02	Water	Sep-08-10 12:30	Sep-13-10 11:00
T001-1339-100908-SW-03-1	1009014-03	Water	Sep-08-10 09:15	Sep-13-10 11:00



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Project Manager: Kristie Warr

Reported:  
Sep-14-10 15:22

## Analysis by LC MS MS

### US EPA Region 5 Chicago Regional Laboratory

T008-R627-100908-SW-02-1 (1009013-01) Water Sampled: Sep-08-10 08:31 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	J		20	ug/L	1	B009033	Sep-13-10	Sep-13-10

Surrogate: DOSS-D34 150 86.6 % 50-150 " " "

T008-1321-100908-SW-05-1 (1009013-02) Water Sampled: Sep-08-10 09:44 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	J		21	ug/L	1	B009033	Sep-13-10	Sep-13-10

Surrogate: DOSS-D34 160 81.7 % 50-150 " " "

T001-1456-100908-SW-07-1 (1009014-01) Water Sampled: Sep-08-10 10:45 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	J		20	ug/L	1	B009033	Sep-13-10	Sep-13-10

Surrogate: DOSS-D34 180 89.5 % 50-150 " " "

T001-1448-100908-SW-05-1 (1009014-02) Water Sampled: Sep-08-10 12:30 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
diethyl sulfosuccinate	U	J		20	ug/L	1	B009033	Sep-13-10	Sep-13-10

*Lawrence Zintek*  
Lawrence Zintek, Group Leader



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Reported:  
Sep-14-10 15:22

**Analysis by LC MS MS**

**US EPA Region 5 Chicago Regional Laboratory**

T001-1448-100908-SW-05-1 (1009014-02) Water Sampled: Sep-08-10 12:30 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: DOSS-D34	180			90.8 %	50-150		B009033	Sep-13-10	Sep-13-10

T001-1339-100908-SW-03-1 (1009014-03) Water Sampled: Sep-08-10 09:15 Received: Sep-13-10 11:00

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	J		21	ug/L	1	B009033	Sep-13-10	Sep-13-10

Surrogate: DOSS-D34 170 81.9 % 50-150 " " "



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Reported:  
Sep-14-10 15:22

## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B009033 - \*\*\* DEFAULT PREP \*\*\*

#### Blank (B009033-BLK1)

Prepared & Analyzed: Sep-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U			20	ug/L						

Surrogate: DOSS-D34 220 " 194.2 112 50-150

#### LCS (B009033-BS1)

Prepared & Analyzed: Sep-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	200			20	ug/L	196.1		103	50-150		

Surrogate: DOSS-D34 210 " 196.1 107 50-150

#### LCS Dup (B009033-BSD1)

Prepared & Analyzed: Sep-13-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	200			20	ug/L	190.5		105	50-150	0.857	30

Surrogate: DOSS-D34 210 " 190.5 110 50-150



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## Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

### Batch B009033 - \*\*\* DEFAULT PREP \*\*\*

Duplicate (B009033-DUP1)			Source: 1009014-01			Prepared & Analyzed: Sep-13-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	J		20	ug/L		U				200
Surrogate: DOSS-D34											
	180				"	200.0		89.5	50-150		

Duplicate (B009033-DUP2)			Source: 1009013-01			Prepared & Analyzed: Sep-13-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
diethyl sulfosuccinate	U	J		20	ug/L		U				200
Surrogate: DOSS-D34											
	150				"	175.4		85.8	50-150		

Matrix Spike (B009033-MS1)			Source: 1009014-01			Prepared & Analyzed: Sep-13-10					
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
diethyl sulfosuccinate	180			20	ug/L	199.0	U	88.1	50-150		
Surrogate: DOSS-D34											
	180				"	199.0		88.1	50-150		

Matrix Spike (B009033-MS2)			Source: 1009013-01			Prepared & Analyzed: Sep-13-10					
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**Analysis by LC MS MS - Quality Control**  
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**Batch B009033 - \*\*\* DEFAULT PREP \*\*\***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	200			21	ug/L	180.2	U	112	50-150		
Surrogate: DOSS-D34	150				"	180.2		84.8	50-150		

**Matrix Spike Dup (B009033-MSD1) Source: 1009014-01 Prepared & Analyzed: Sep-13-10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	160			20	ug/L	194.2	U	83.8	50-150	7.40	30
Surrogate: DOSS-D34	170				"	194.2		88.1	50-150		

**Matrix Spike Dup (B009033-MSD2) Source: 1009013-01 Prepared & Analyzed: Sep-13-10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	150			20	ug/L	177.0	U	83.3	50-150	31.0	30
Surrogate: DOSS-D34	150				"	177.0		85.5	50-150		



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**Notes and Definitions**

J The identification of the analyte is acceptable; the reported value is an estimate.  
U Not Detected  
NR Not Reported

## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.05:2003
	RAM-DOSS	(Water)	Special Units: (ug/L)
1009013-01	RAM-DOSS		Sampled->Prepared > 5.00 days
1009013-01	RAM-DOSS		Sampled->Prepared > 5.00 days
1009013-02	RAM-DOSS		Sampled->Prepared > 5.00 days
1009013-02	RAM-DOSS		Sampled->Prepared > 5.00 days
1009014-01	RAM-DOSS		Sampled->Prepared > 5.00 days
1009014-01	RAM-DOSS		Sampled->Prepared > 5.00 days
1009014-03	RAM-DOSS		Sampled->Prepared > 5.00 days
1009014-03	RAM-DOSS		Sampled->Prepared > 5.00 days
B009033-MSD2	RAM-DOSS	dioctyl sulfosuccinate	Exceeds RPD control limit

**Sample, Log and Extraction Comments**

**1009013-01**  
**RAM-DOSS**

MS/MSD  
MS/MSD  
MS/MSD

**1009014-01**  
**RAM-DOSS**

MS/MSD  
MS/MSD  
MS/MSD